DERWENT-ACC-NO: 1998-050818

DERWENT-WEEK:

199805

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TITLE:

Preparation of radiation shielding - uses

mechanically

activated gypsum-containing wastes as basis,

and also

filler and reinforcement

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PATENT-ASSIGNEE: KOCHETKOVA R G[KOCHI]

PRIORITY-DATA: 1995RU-0119981 (November 27, 1995)

PATENT-FAMILY:

PUB-DATE LANGUAGE PUB-NO

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MAIN-IPC

RU 2083007 C1 June 27, 1997 N/A

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APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

1995RU-0119981 RU 2083007C1 N/A

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INT-CL (IPC): G21F003/04

ABSTRACTED-PUB-NO: RU 2083007C

BASIC-ABSTRACT:

Preparation of radiation shielding comprises: (a) placing phosphor-

lumps, wastes from reprocessing of apatites and phosphorites in mineral

fertiliser production in a mechanical grinder; (b) grinding to a size

and (c) mechanically activating by grinding to less than 0.001 mm.

phosphor-gypsum loses its water which wets the raw product. The product is

placed in a casing and is allowed to set for 60 minutes. The resulting sheet

3/10/05, EAST Version: 2.0.1.4

has a thickness of 150 mm and reduces beta -radiation by half and gamma

-radiation by 1.6 times. The wastes contain not less than 40% by

gypsum and also a filler in the form of building wastes, slag and/or mineral

The wastes further contain reinforcement in the form of dyes. assembly plates

and/or road covering with a surface processing comprising mineral materials.

The method is useful in the manufacture of radiation protective constructions,

mainly sheets and faceplates, used in e.g. communal and industrial constructions

The method allows ecological use of gypsum-containing wastes

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PREPARATION RADIATE SHIELD MECHANICAL ACTIVATE GYPSUM

CONTAIN

WASTE BASIS FILL REINFORCED

DERWENT-CLASS: C04 K07

CPI-CODES: C05-A01B; C05-C05; C14-M01D; K07-A02;

CHEMICAL-CODES:

Chemical Indexing M2 *01* Fragmentation Code A220 A940 C101 C108 C316 C540 C730 C801 C802 C804 C805 M411 M781 M903 M904 Q444

Specfic Compounds

03122U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-017284